To: Graybill, Eric[graybill.eric@epa.gov]
From: Slayton, Joe
Sent: Sun 1/26/2014 5:10:02 PM
Subject: RE: GC/MS Anaylsis of Crude Extract

The extracxtion the labs look to now be using is 100 mL sample, 15 gms salt and 2 mL of hexane (single shake and shoot --2uL) without concentration no mention of pH adjustment. I would think the inlet and perhaps septa may be trashed and perhaps even the autosampler syringe and rinse vessels. I did not used to have to vent to clean up front but I don't know with your current system...probably safer to. JoeS

From: Graybill, Eric
Sent: Sunday, January 26, 2014 12:01 PM
To: Slayton, Joe
Cc: Caporale, Cynthia
Subject: RE: GC/MS Anaylsis of Crude Extract

I can see MCHM at 0.5 ppb. I am getting about 60% recovery at 0.5 ppb, 5 ppb, and 50 ppb (I ran these before the crude extract). I did follow essentially CLP with extraction at pH 2. I was thinking to try just a neutral extraction as was described for the sep funnel to see if it would improve recovery.

The crude junked up the GC and I now have a consistent 11 ppm and 3 ppm for cis and trans in my blank for about 3 blank reruns which was previously clean. I am thinking I will need to clean it out with more than just blank rinses but that will have to wait until Monday.

-----Original Message-----
From: Slayton, Joe
Sent: Sunday, January 26, 2014 10:54 AM
To: Graybill, Eric
Subject: RE: GC/MS Anaylsis of Crude Extract

Nice Job! Obviously needed to overload the major peaks to get some of the much smaller background peaks. Looks like an excellent dilution selection for a first go. Had a chance to try an extraction of spikes for either MCHHM or PPH as that is how folks are now getting to the low ppb levels?

From: Graybill, Eric
Sent: Sunday, January 26, 2014 9:44 AM
To: Caporale, Cynthia; Slayton, Joe; Warner, Sue; Gundersen, Jennifer; Zawodny, Peggy; Molnar, Adam; Poff, Kevin; Wilding, Stevie
Subject: GC/MS Anaylsis of Crude Extract

My thought is that the major component of the sludge/crude is cis and trans.

PPH is also present and as are additional compounds.

Some of the TIC matches aren't great in the 50s and 40s and 30s but the spectra are there to check. A few matches are in the 80s and 90s.

I will perform another dilution to see if anything is hiding near the cis/trans peaks.

Happy Sunday!!!
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